

Application No. 09/684,064  
Amendment Dated March 30, 2007  
Reply to Office Action of January 23, 2007

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1. (Currently Amended) A method of providing real-time decision support in the review of physiological data, the method comprising:
  - establishing a library of interpreted physiological data records;
  - gathering the physiological data;
  - interpreting the physiological data based on a predetermined set of criteria such that a separate interpretation is generated, wherein the interpreting step includes:
    - measuring the physiological data;
    - analyzing a set of characteristics associated with the physiological data;
    - extracting one or more patterns from the physiological data to generate the separate interpretation; and
    - comparing the separate interpretation from the physiological data to a set of known patterns from the library;
    - correlating the separate interpretation to one or more of the physiological data records in the library of physiological data records; and
    - displaying the separate interpretation and the correlated physiological data records on a display.
2. (Original) A method as claimed in claim 1, further comprising:
  - establishing a communications link to an expert location;
  - transmitting information concerning the interpretation to the expert location; and
  - displaying a communication from the expert location on the display.
3. (Original) A method as claimed in claim 2, wherein transmitting information concerning the interpretation includes transmitting a text message.

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4. (Original) A method as claimed in claim 2, wherein transmitting information concerning the interpretation includes transmitting a voice message.
5. (Canceled)
6. (Previously Presented) A method as claimed in claim 1, further comprising determining whether the one or more extracted patterns match one or more patterns in the set of known patterns.
7. (Previously Presented) A method as claimed in claim 1, further comprising:  
creating a library of education materials; and  
displaying a predetermined portion of the education materials on the display.
8. (Original) A method as claimed in claim 1, further comprising displaying a message based on the interpretation on the display.
9. (Original) A method as claimed in claim 1, further comprising displaying the physiological data on the display.
10. (Previously Presented) A physiological data interpretation system comprising:  
a library of physiological data records;  
a physiological data acquisition device capable of acquiring physiological data and coupled to the library of physiological data records, the acquisition device having an interpretation module to generate a separate interpretation of the physiological data and a correlation module to compare the separate interpretation to the records in the library of physiological records and determine a set of correlated data records, wherein the interpretation module is configured to measure the physiological data, analyze a set of characteristics associated with the physiological data, and extract one or more patterns from the physiological data to generate the separate interpretation; and

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an output device coupled to the acquisition device.

11. (Original) A system as claimed in claim 10, wherein the output device is a display.
12. (Original) A system as claimed in claim 10, further comprising an expert location coupled to the acquisition device.
13. (Original) A system as claimed in claim 12, wherein the expert location is a portal.
14. (Original) A system as claimed in claim 12, wherein the acquisition device includes an information filter.
15. (Original) A system as claimed in claim 12, wherein the acquisition device includes a communications module capable of transmitting messages to and receiving messages from the expert location.
16. (Original) A system as claimed in claim 15, wherein the messages include text information.
17. (Original) A system as claimed in claim 15, wherein the messages include voice information.
18. (Original) A system as claimed in claim 10, further comprising a server coupled to the acquisition device, and wherein the library of physiological records is located on the server.
19. (Original) A system as claimed in claim 10, further comprising a library of supplemental materials coupled to the acquisition device.

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20. (Original) A system as claimed in claim 10, wherein the library of physiological data records includes ECG data.
21. (Original) A system as claimed in claim 10, wherein the acquisition device is an ECG acquisition device.
22. (Original) A system as claimed in claim 10, wherein the acquisition device includes a browser.
23. (Original) A system as claimed in claim 10, wherein the interpretation includes at least one textual message.
24. (Original) A system as claimed in claim 10, wherein the acquisition module includes a confirmation module to confirm the integrity of the physiological data.
25. (Currently Amended) A method of interpreting physiological data, the method comprising:
  - acquiring physiological data;
  - interpreting the physiological data based on a predetermined set of criteria such that a separate interpretation is generated, wherein the interpreting step includes:
    - \_\_\_\_\_ measuring the physiological data;
    - \_\_\_\_\_ analyzing a set of characteristics associated with the physiological data;
    - \_\_\_\_\_ checking the integrity of the acquired physiological data by extracting one or more patterns from the physiological data to generate the separate interpretation; and
    - \_\_\_\_\_ comparing the separate interpretation from the physiological data to a set of known patterns from a library of physiological records;
    - correlating the separate interpretation to one or more physiological data records in thea library of physiological data records; and
    - displaying the separate interpretation and the correlated physiological data records on a

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display.

26. (Original) A method as claimed in claim 25, further comprising:  
establishing a library of interpreted physiological data records.
27. (Original) A method as claimed in claim 25, further comprising:  
establishing a communications link to an expert location;  
transmitting information concerning the interpretation to the expert location; and  
displaying a communication from the expert location on the display.
28. (Original) A method as claimed in claim 27, wherein transmitting information  
concerning the interpretation includes transmitting a text message via instant messaging.
29. (Original) A method as claimed in claim 27, wherein transmitting information  
concerning the interpretation includes transmitting a voice message via voice-based instant  
messaging.
30. (Canceled)
31. (Original) A method as claimed in claim 25, further comprising:  
creating a library of supplemental materials; and  
displaying some of the supplemental materials on the display.